

# The Power of a Team

## Do Your Job!

Dear SAM Partners,

Thank you for entrusting us with your wealth, and for allowing us to help you on your path to financial freedom. We wouldn't be here without you, our valued clients, and that is why we are committed to putting you first in everything we do. Therefore, in addition to our usual Quarterly Market Review, we are adding a cover letter to provide you with **continuous education**. These letters will reinforce our **long-term thinking approach**, and our overall philosophies to help you attain your financial goals.

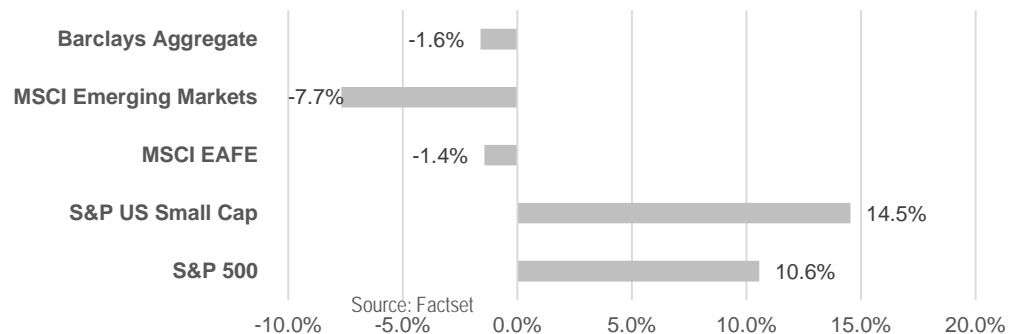
Now for introductions! My name is Jason Blumstein, and I joined the Satovsky Asset Management team on October 1<sup>st</sup> as Senior Investment Analyst. Prior to SAM, I spent a little more than eleven years at JP Morgan in product development, portfolio management, and equity research. What attracted me to SAM is the opportunity to work with a great team – one that is passionate about impacting peoples' financial lives in a positive way. We share a common philosophy of **long-term thinking**, **teamwork**, **financial literacy**, and a **value investment mindset**.

Besides investing, one of my biggest passions in life is football, having played both in high school and college. Football teaches a person a lot about teamwork, since it is considered to be the ultimate team sport.

***In football, none of the great teams have one individual star.*** You need 33 players (11 offense, 11 defense, 11 special teams) all working for one common goal. To win. ***We have the same mindset when it comes to investing your wealth. There is no individual star, but everything in your portfolio is part of a team that is designed to help you win.***

In a year where the S&P 500, or the benchmark for "the market," is handsomely beating most other assets classes, some of you might be wondering, "why don't we only invest in the S&P 500 for clients"? As seen in the chart below, through the first 3 quarters of 2018, the S&P 500 is outperforming most other global asset classes.

Index Returns Through Q3 2018



# The Power of a Team

## Do Your Job!

This brings us back to the power of a team and longer-term thinking. ***If we only invested in the S&P 500 we would miss out on other longer-term opportunities for our clients, as well as the ability to balance risk/return which allows us to create a winning portfolio for you.*** While it pains me to say this, as I am a Miami Dolphin fan, this is the same philosophy followed by the most dominant franchise in the NFL – The New England Patriots.

The Patriots philosophy of “Do your job” is rooted in the belief that **every individual has a certain task to do for the team to be successful.** No individual is greater than The Team. Now some might be thinking, “what about Tom Brady?” Well, below is an Instagram post from Tom Brady when he was named the #1 player in the NFL for 2018.



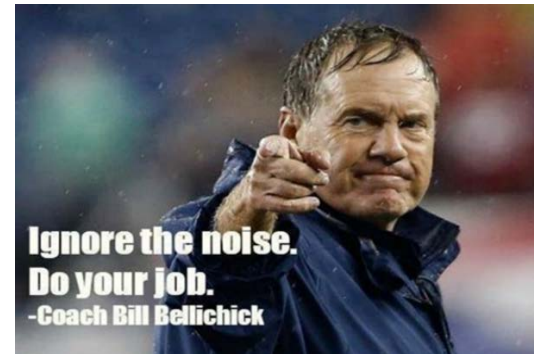
Liked by tombrady, [profile icons], and others

nfl BACK-TO-BACK. @TomBrady is No. 1...AGAIN! 🐾  
#NFLTop100

View all 11,600 comments

**tombrady** Thank you ! I am beyond blessed. Football is the ultimate team sport and I love playing for my teammates, coaches, organization, family and our fans!! Congratulations to all the players recognized for 2017, but 2018 is upon us

15 HOURS AGO



Additionally, while Tom Brady has the most Super Bowl appearances by any quarterback (a team accomplishment), it might be surprising to learn that **he does not hold any individual quarterback records** (i.e. most yards, most completions, or most touchdown passes).

So, how does this relate to investing and your portfolio? Yes, it's true that the S&P 500 is one of the best asset classes so far **this year**. However, ***the S&P 500 has only been the top performing asset class in 3 of the past 20 years*** - 2014, 2015, and so far in 2018. **From 1999-2013, the S&P 500 was never the best returning asset class.** Over this time period (1999-3Q 2018), the two best asset classes have been US Small Caps and Emerging Markets. However, since they come with some higher volatility, most investors wouldn't be able to sit on them long enough to achieve these higher returns or their longer-term financial goals. (Please see slide 19 for more detail)

# The Power of a Team

## Do Your Job!

This is why SAM chooses to **invest with longer-term thinking**. We build portfolios that have assets that “do their job” to help our clients win, while also thinking globally about investments. We can’t predict precisely which asset class will do the best from one year to the next (we don’t believe anyone can or should), but as long as we assemble a team of investments working for a common goal, we are confident we will find success for you.

**We urge our clients to think about the long-term and the power of a portfolio team approach.** After all, this philosophy is shared not just by us but by the most dominant team in the ultimate team sport!

Thank you for entrusting us with your wealth.

### The SAM Team

P.S. Below we have included a couple questions we have received from clients lately.

#### **Q: What is the difference between a mutual fund and an ETF?**

**A:** ETFs, short for exchange-traded funds, and mutual funds, also called open-end funds, are two different investment structures both designed to help diversify your portfolio. Instead of buying a stake in one company’s business, these securities buy stake’s in broad amount of companies in order to reduce your portfolio’s dependence on any singular company’s performance.

SAM uses ETFs in our portfolios to provide broad asset class exposure to different indices. This is known as *passive investing*. Since ETFs just invest in an index passively, they are typically a low-cost means to gain exposure to an asset class for our clients. ETFs are generally cheaper than mutual funds in terms of management fees, and they are

also typically structured in a more tax-efficient manner.

SAM uses mutual funds to complement the broad index exposure that ETFs provide. In more inefficient markets where there are more opportunities to add value, SAM has chosen to invest in *active mutual fund managers* versus traditional index ETFs. In the global micro-cap market, for example, mutual funds have the flexibility to take a company-by-company approach to invest in select small international companies. Given the inefficiencies of this market, we view this as an advantage versus investing in a passive international small company index.

#### **Q: What is the behavior gap and how do I try to combat it?**

**A:** The behavior gap is a term coined by Carl Richards describing the difference between the returns of an investment versus the returns of the average investor. This difference occurs because investors sell and buy at inopportune moments (often buy high, sell low vs. buy low, sell high). They get fearful when markets experience downturns, then sell in order to preserve their capital (selling low). They also get greedy when markets are on the rise, then try to buy in more and capitalize on the most recent past returns (buying high). Academic evidence has estimated that this effect nets investors anywhere from 1.5% to 6.5% in lost returns annually\*. While nobody has an outright cure for the behavior gap, our focus at SAM is on our clients’ long-term goals and the path set out to reach them. Short-term market movements should not materially impact your portfolio structure. Discipline and structure is the main antidote to the behavior gap.

\*Source: Barber, Brad M., and Terrance Odean. “Trading Is Hazardous to Your Wealth: The Common Stock Investment Performance of Individual Investors.” *The Journal of Finance*, Wiley/Blackwell (10.1111), 17 Dec. 2002

# Q3

Quarterly Market Review

Third Quarter 2018

# Quarterly Market Review

Third Quarter 2018

This report features world capital market performance and a timeline of events for the past quarter. It begins with a global overview, then features the returns of stock and bond asset classes in the US and international markets.

The report also illustrates the impact of globally diversified portfolios and features a quarterly topic.

## Overview:

Market Summary

World Stock Market Performance

World Asset Classes

US Stocks

International Developed Stocks

Emerging Markets Stocks

Select Country Performance

Select Currency Performance vs. US Dollar

Real Estate Investment Trusts (REITs)

Commodities







Fixed Income

Impact of Diversification

Major Asset Class Returns Through Time

# Market Summary

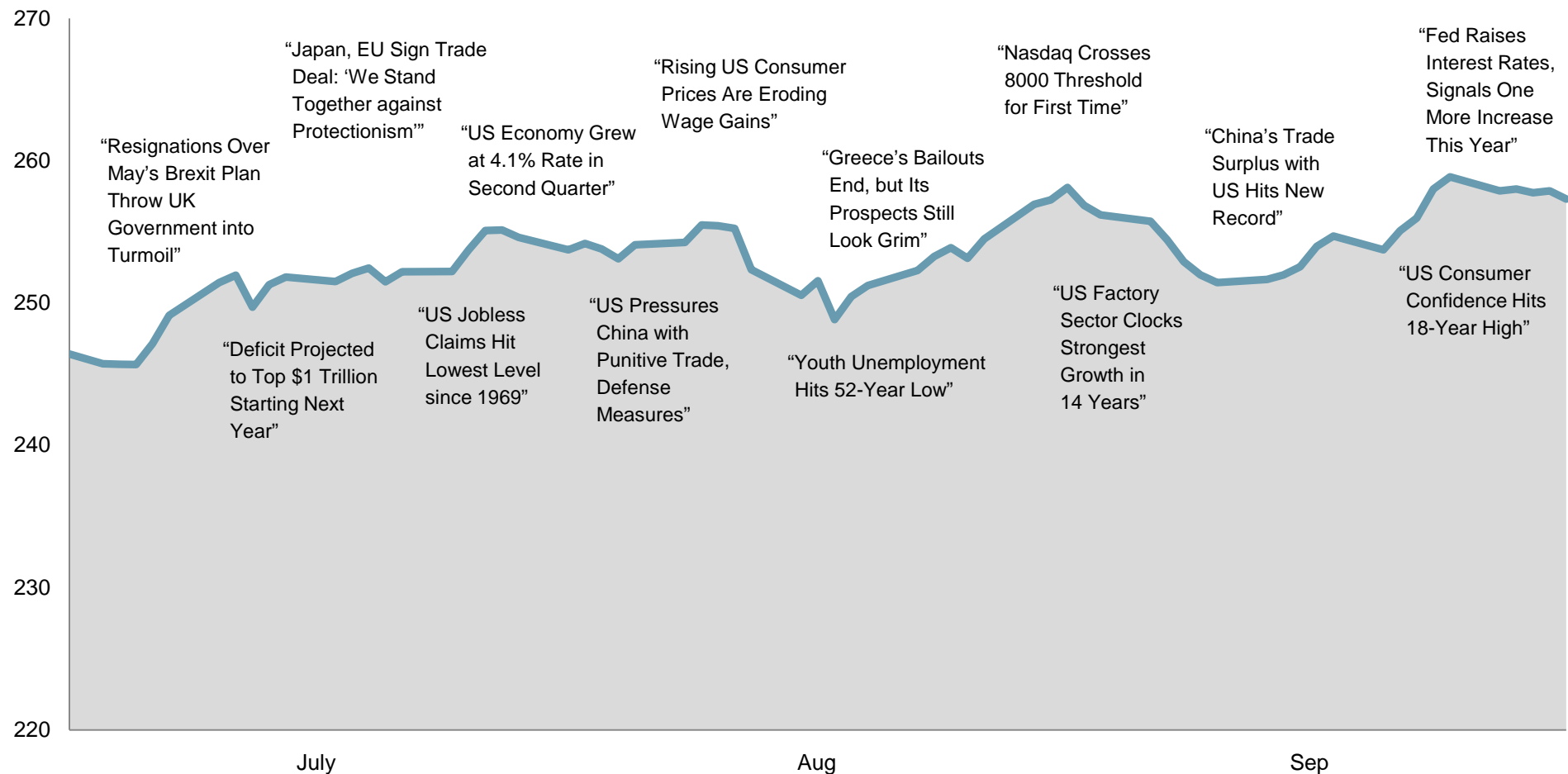
## Index Returns

	US Stock Market	International Developed Stocks	Emerging Markets Stocks	Global Real Estate		US Bond Market	Global Bond Market ex US
<b>Q3 2018</b>	<b>STOCKS</b>					<b>BONDS</b>	
	7.12%	1.31%	-1.09%	-0.03%		0.02%	-0.17%
							
<b>Since Jan. 2001</b>							
Avg. Quarterly Return	2.0%	1.5%	2.9%	2.6%		1.1%	1.1%
Best Quarter	16.8%	25.9%	34.7%	32.3%		4.6%	4.6%
	2009 Q2	2009 Q2	2009 Q2	2009 Q3		2001 Q3	2008 Q4
Worst Quarter	-22.8%	-21.2%	-27.6%	-36.1%		-3.0%	-2.7%
	2008 Q4	2008 Q4	2008 Q4	2008 Q4		2016 Q4	2015 Q2

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: US Stock Market (Russell 3000 Index), International Developed Stocks (MSCI World ex USA Index [net div.]), Emerging Markets (MSCI Emerging Markets Index [net div.]), Global Real Estate (S&P Global REIT Index [net div.]), US Bond Market (Bloomberg Barclays US Aggregate Bond Index), and Global Bond Market ex US (Bloomberg Barclays Global Aggregate ex-USD Bond Index [hedged to USD]). S&P data © 2018 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes. MSCI data © MSCI 2018, all rights reserved. Bloomberg Barclays data provided by Bloomberg. FTSE fixed income © 2018 FTSE Fixed Income LLC, all rights reserved.

# World Stock Market Performance

MSCI All Country World Index with selected headlines from Q3 2018



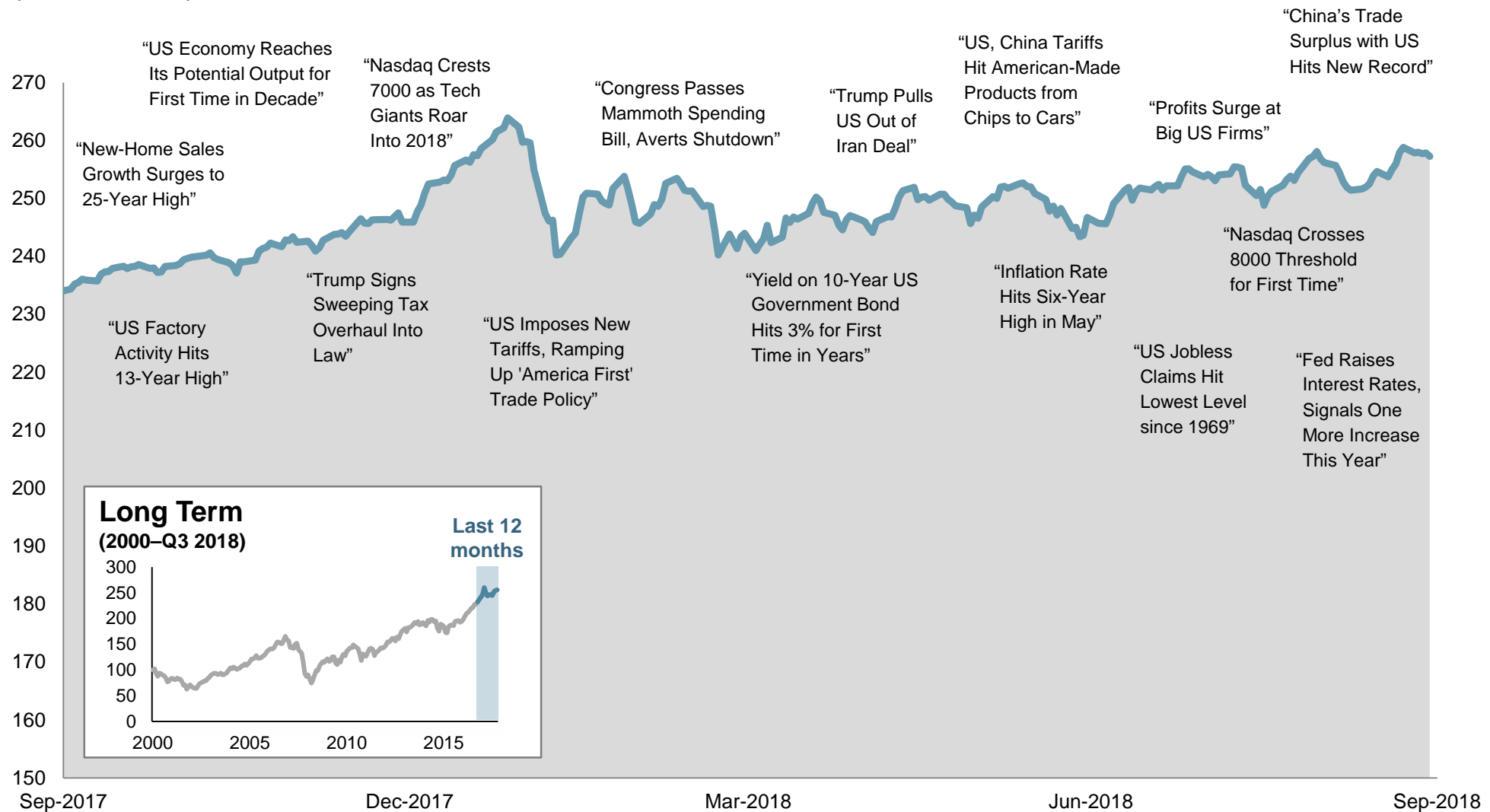
These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.



# World Stock Market Performance

MSCI All Country World Index with selected headlines from past 12 months

## Short Term (Q4 2017–Q3 2018)



These headlines are not offered to explain market returns. Instead, they serve as a reminder that investors should view daily events from a long-term perspective and avoid making investment decisions based solely on the news.

Graph Source: MSCI ACWI Index [net div.]. MSCI data © MSCI 2018, all rights reserved.

It is not possible to invest directly in an index. Performance does not reflect the expenses associated with management of an actual portfolio. Past performance is not a guarantee of future results.



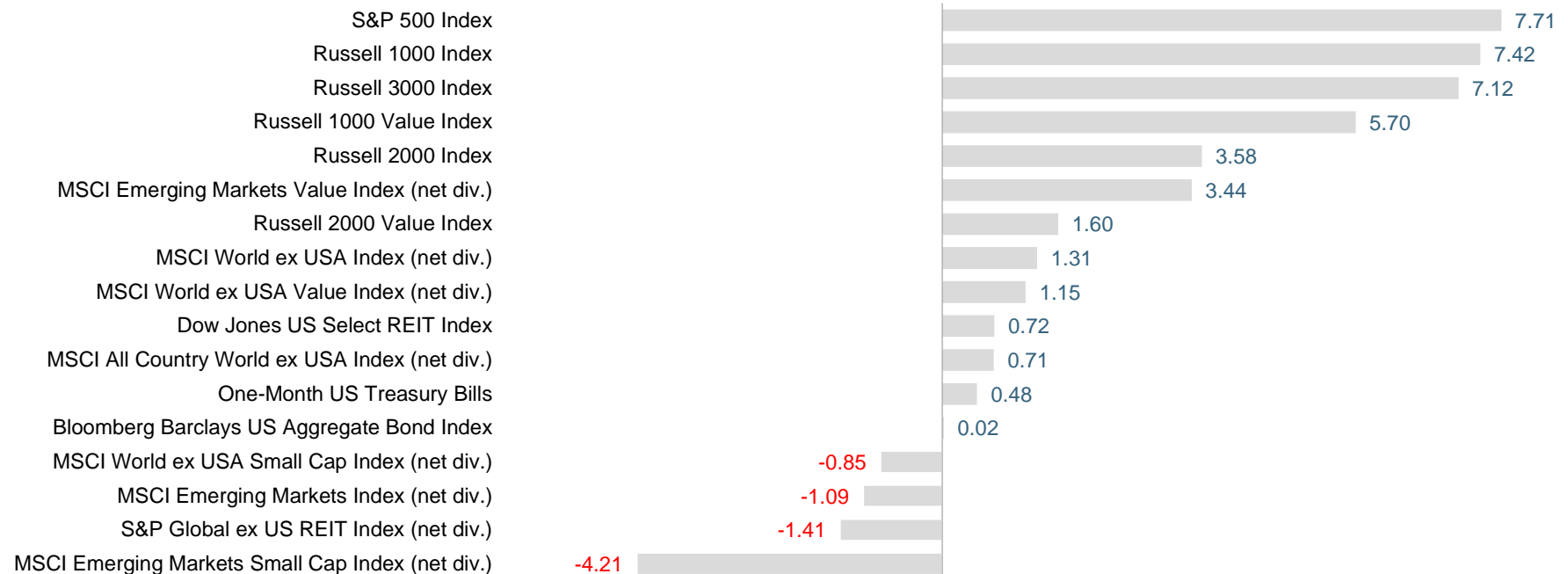
# World Asset Classes

## Third Quarter 2018 Index Returns (%)

Looking at broad market indices, the US outperformed non-US developed and emerging markets during the quarter.

Small caps underperformed large caps in the US, non-US developed, and emerging markets. The value effect was positive in emerging markets but negative in the US and non-US developed markets.

REIT indices underperformed equity market indices in both the US and non-US developed markets.



# US Stocks

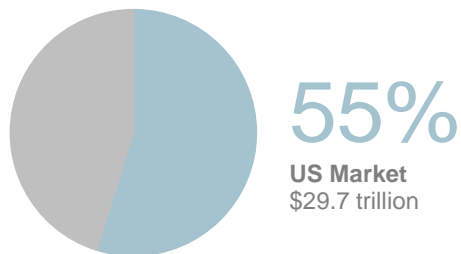
## Third Quarter 2018 Index Returns

The US equity market posted a positive return, outperforming both non-US developed and emerging markets.

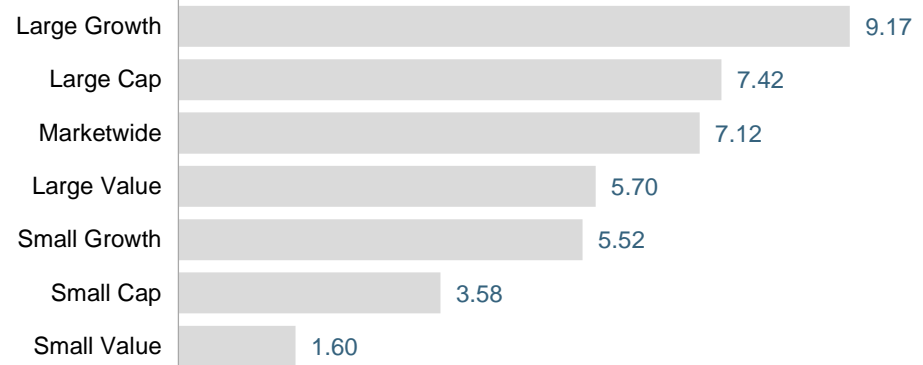
Value underperformed growth in the US across large and small cap stocks.

Small caps underperformed large caps in the US.

### World Market Capitalization—US



### Ranked Returns for the Quarter (%)



### Period Returns (%)

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*
Large Growth	17.09	26.30	20.55	16.58	14.31
Small Growth	15.76	21.06	17.98	12.14	12.65
Small Cap	11.51	15.24	17.12	11.07	11.11
Marketwide	10.57	17.58	17.07	13.46	12.01
Large Cap	10.49	17.76	17.07	13.67	12.09
Small Value	7.14	9.33	16.12	9.91	9.52
Large Value	3.92	9.45	13.55	10.72	9.79

\* Annualized

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Market segment (index representation) as follows: Marketwide (Russell 3000 Index), Large Cap (Russell 1000 Index), Large Cap Value (Russell 1000 Value Index), Large Cap Growth (Russell 1000 Growth Index), Small Cap (Russell 2000 Index), Small Cap Value (Russell 2000 Value Index), and Small Cap Growth (Russell 2000 Growth Index). World Market Cap represented by Russell 3000 Index, MSCI World ex USA IMI Index, and MSCI Emerging Markets IMI Index. Russell 3000 Index is used as the proxy for the US market. Frank Russell Company is the source and owner of the trademarks, service marks, and copyrights related to the Russell Indexes. MSCI data © MSCI 2018, all rights reserved.

# International Developed Stocks

## Third Quarter 2018 Index Returns

In US dollar terms, developed markets outside the US underperformed the US but outperformed emerging markets during the quarter.

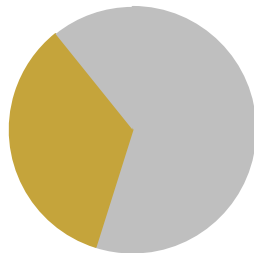
Large cap value stocks underperformed large cap growth stocks in non-US developed markets; however, small cap value outperformed small cap growth.

Small caps underperformed large caps in non-US developed markets.

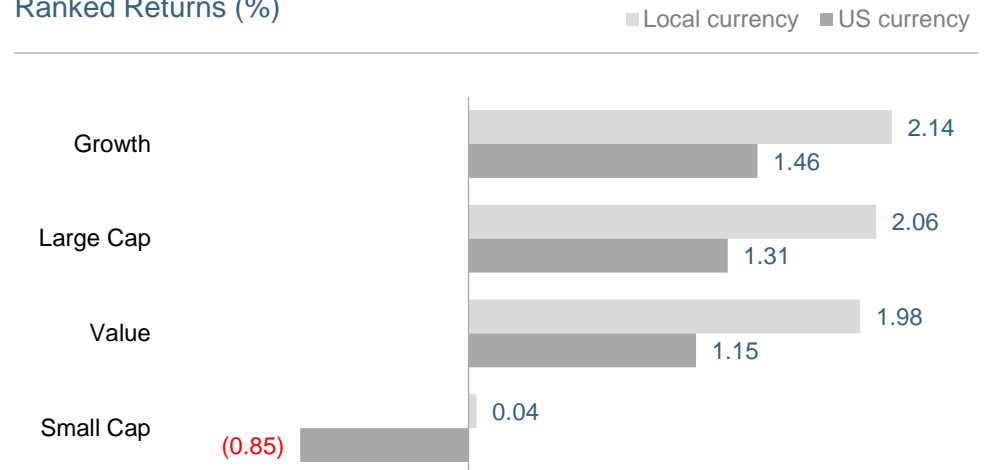
### World Market Capitalization—International Developed

**34%**

International  
Developed  
Market  
\$18.6 trillion



### Ranked Returns (%)



### Period Returns (%)

Asset Class	YTD	1 Year	* Annualized		
			3 Years*	5 Years*	10 Years*
Growth	0.39	5.47	9.91	5.37	5.78
Large Cap	-1.50	2.67	9.32	4.24	5.18
Small Cap	-2.28	3.42	12.23	7.07	9.04
Value	-3.43	-0.13	8.65	3.05	4.51

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# Emerging Markets Stocks

## Third Quarter 2018 Index Returns

In US dollar terms, emerging markets posted negative returns for the quarter, underperforming developed markets including the US.

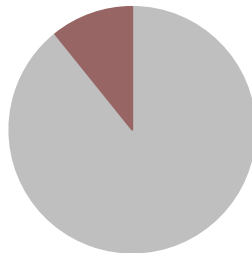
The value effect was positive, particularly in large caps in emerging markets.

Small caps underperformed large caps.

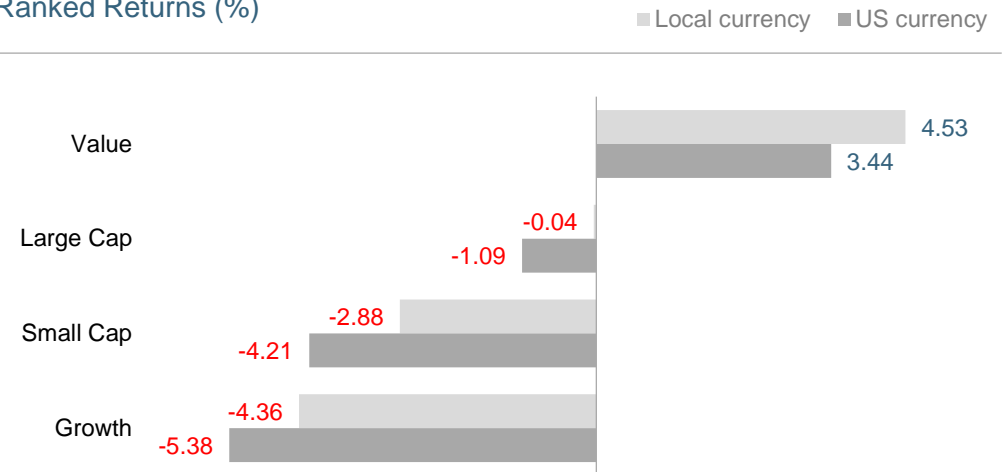
### World Market Capitalization—Emerging Markets

**11%**

Emerging Markets  
\$5.8 trillion



### Ranked Returns (%)



### Period Returns (%)

Asset Class	YTD	1 Year	* Annualized		
			3 Years*	5 Years*	10 Years*
Value	-4.28	2.27	11.55	2.04	4.53
Large Cap	-7.68	-0.81	12.36	3.61	5.40
Growth	-10.94	-3.89	13.03	5.08	6.18
Small Cap	-12.30	-4.20	7.43	2.72	7.43

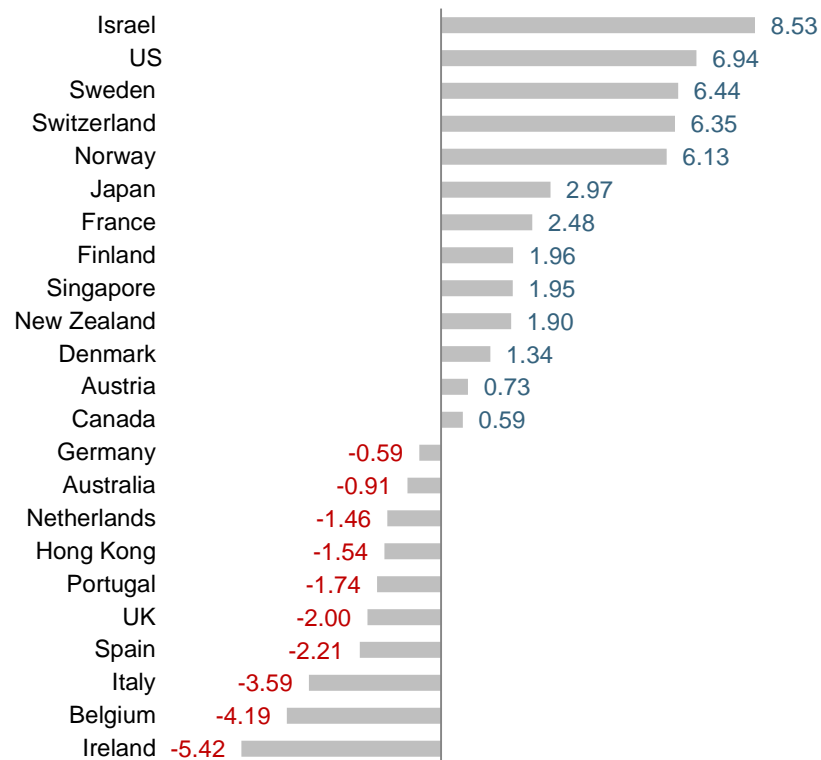
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# Select Country Performance

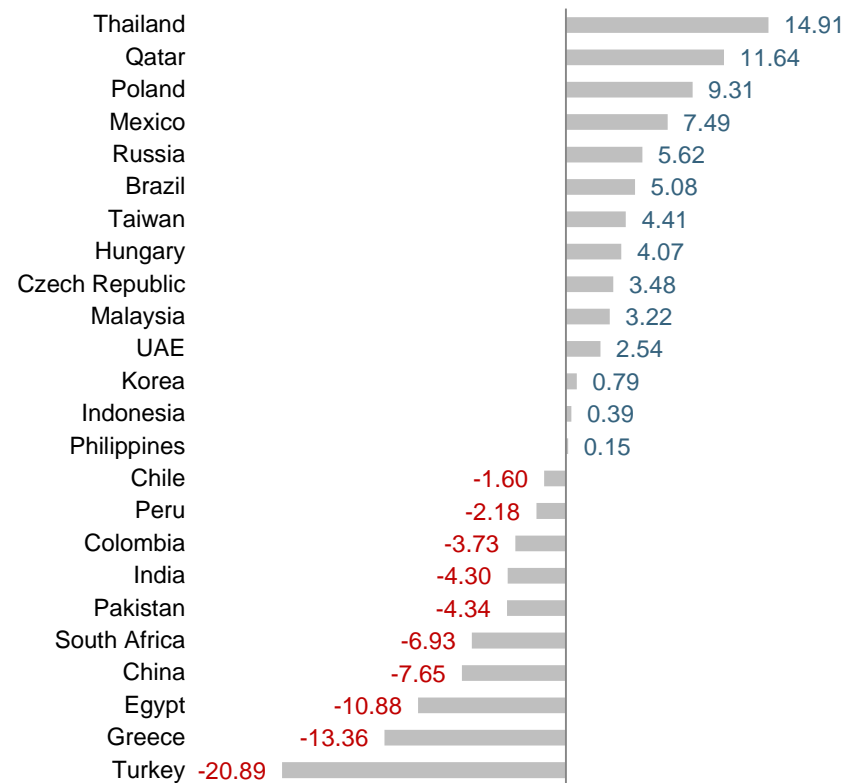
## Third Quarter 2018 Index Returns

In US dollar terms, Israel, the US, and Sweden recorded the highest country performance in developed markets, while Ireland and Belgium posted the lowest returns for the quarter. In emerging markets, Thailand and Qatar recorded the highest country performance, while Turkey, Greece, Egypt, and China posted the lowest performance.

Ranked Developed Markets Returns (%)



Ranked Emerging Markets Returns (%)



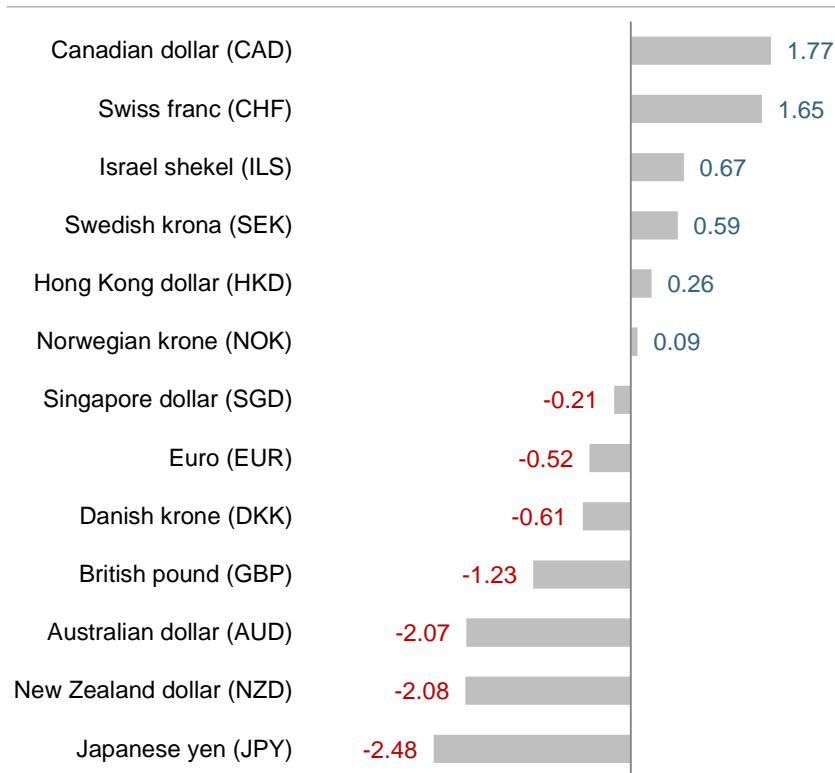
Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Country performance based on respective indices in the MSCI World ex US IMI Index (for developed markets), MSCI USA IMI Index (for US), and MSCI Emerging Markets IMI Index. All returns in USD and net of withholding tax on dividends. MSCI data © MSCI 2018, all rights reserved. UAE and Qatar have been reclassified as emerging markets by MSCI, effective May 2014.

# Select Currency Performance vs. US Dollar

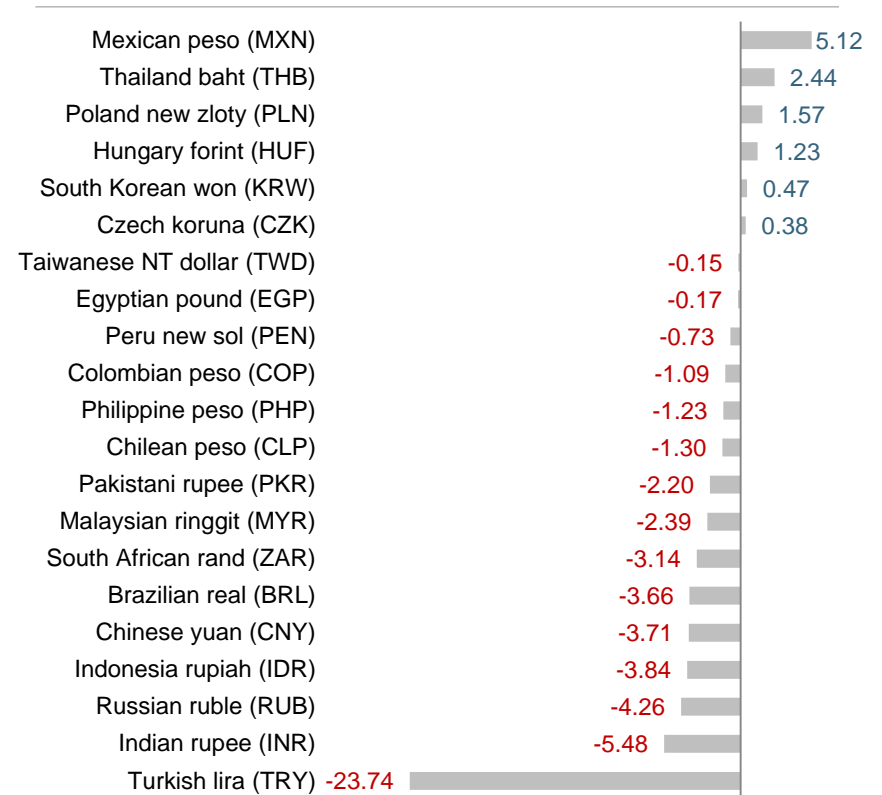
Third Quarter 2018

In developed markets, currencies recorded mixed results vs. the US dollar. The Canadian dollar and the Swiss franc appreciated over 1.5% vs. the US dollar, but the Japanese yen and Australian and New Zealand dollars all each depreciated more than 2%. In emerging markets, most currencies depreciated against the US dollar. The Turkish lira fell over 20%, but the Mexican Peso appreciated more than 5%.

## Ranked Developed Markets (%)



## Ranked Emerging Markets (%)

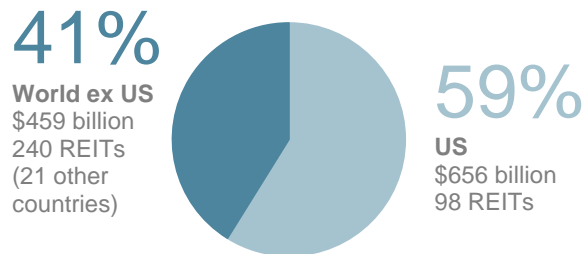


# Real Estate Investment Trusts (REITs)

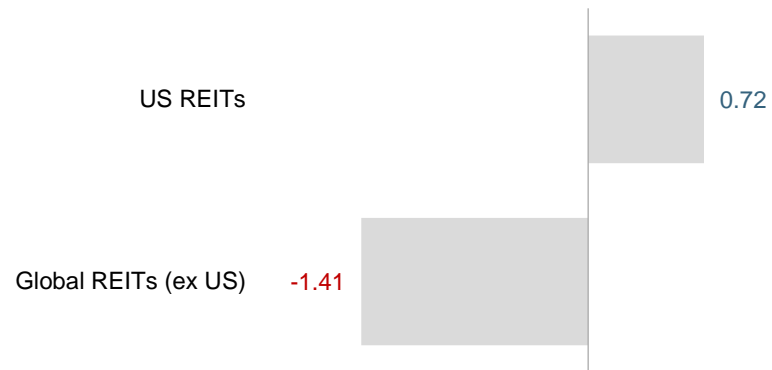
## Third Quarter 2018 Index Returns

US real estate investment trusts outperformed non-US REITs in US dollar terms.

### Total Value of REIT Stocks



### Ranked Returns (%)



### Period Returns (%)

Asset Class	* Annualized				
	YTD	1 Year	3 Years*	5 Years*	10 Years*
Dow Jones US Select REIT Index	2.56	4.59	6.88	9.14	7.21
S&P Global ex US REIT Index (net div.)	-2.88	3.39	5.66	4.18	5.40

Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Number of REIT stocks and total value based on the two indices. All index returns are net of withholding tax on dividends. Total value of REIT stocks represented by Dow Jones US Select REIT Index and the S&P Global ex US REIT Index. Dow Jones US Select REIT Index used as proxy for the US market, and S&P Global ex US REIT Index used as proxy for the World ex US market. Dow Jones data © 2018 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved. S&P data © 2018 S&P Dow Jones Indices LLC, a division of S&P Global. All rights reserved.



# Commodities

## Third Quarter 2018 Index Returns

The Bloomberg Commodity Index Total Return declined 2.02% in the third quarter.

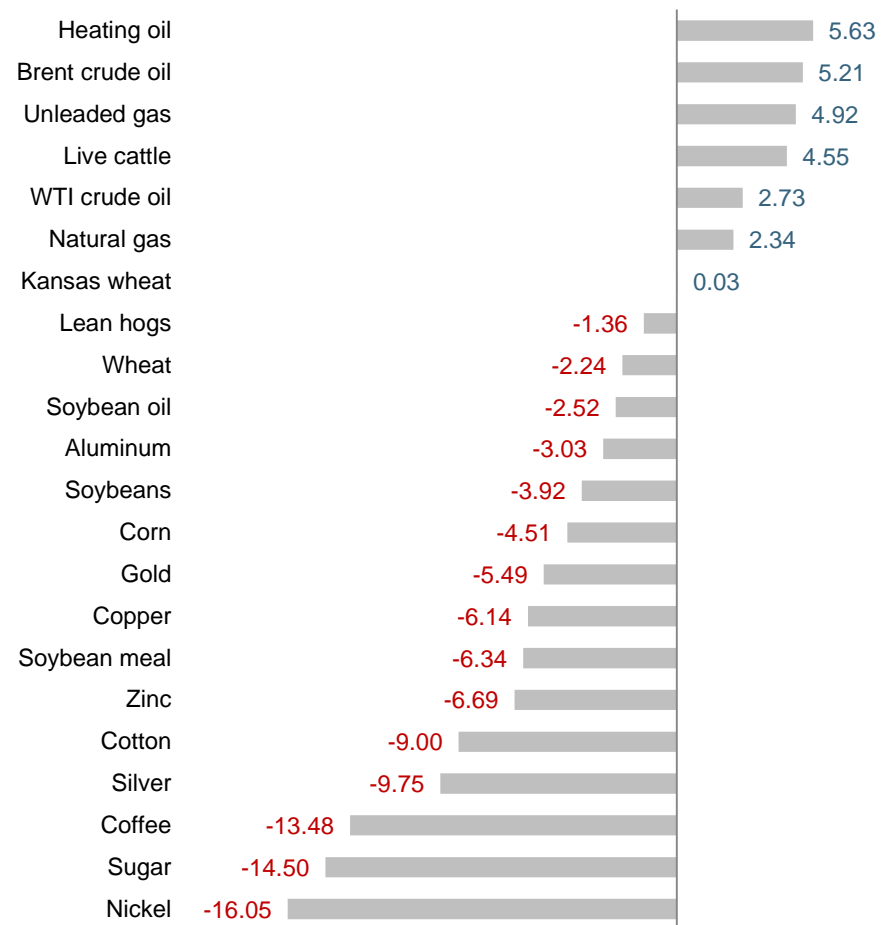
The energy complex led performance. Heating oil gained 5.63%, and Brent oil returned 5.21%.

Nickel, the worst-performing commodity, declined 16.05%. Sugar lost 14.50%, and coffee fell 13.48%.

Period Returns (%) \* Annualized

Asset Class	QTR	YTD	1 Year	3 Years*	5 Years*	10 Years*
Commodities	-2.02	-2.03	2.59	-0.11	-7.18	-6.24

Ranked Returns for Individual Commodities (%)



# Fixed Income

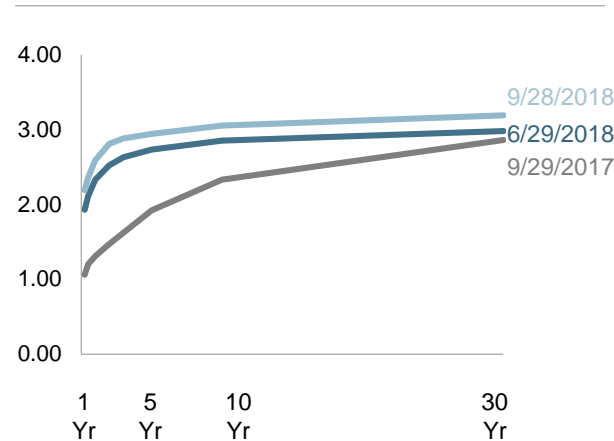
## Third Quarter 2018 Index Returns

Interest rates increased in the US during the third quarter. The yield on the 5-year Treasury note rose 21 basis points (bps), ending at 2.94%. The yield on the 10-year Treasury note increased 20 bps to 3.05%. The 30-year Treasury bond yield rose 21 bps to 3.19%.

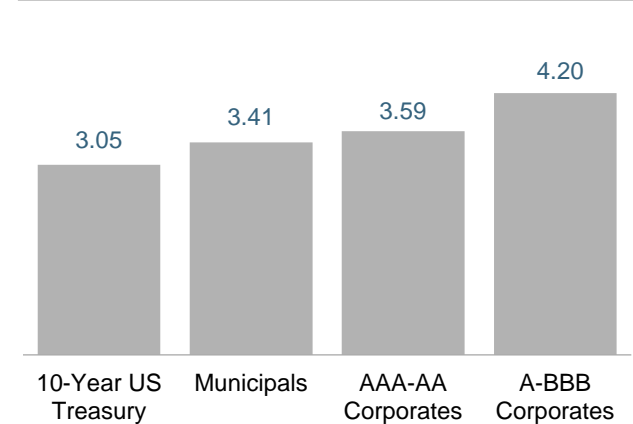
On the short end of the yield curve, the 1-month Treasury bill yield increased 35 bps to 2.12%, while the 1-year Treasury bill yield rose 26 bps to 2.59%. The 2-year Treasury note yield finished at 2.81% after an increase of 29 bps.

In terms of total return, short-term corporate bonds gained 0.71%, while intermediate-term corporates returned 0.80%. Short-term municipal bonds declined 0.11%, while intermediate-term munis dipped 0.06%. Revenue bonds (-0.16%) performed in line with general obligation bonds (-0.14%).

US Treasury Yield Curve (%)



Bond Yields across Issuers (%)



Period Returns (%)

Asset Class	QTR	YTD	1 Year	3 Years*	5 Years*	10 Years*
Bloomberg Barclays US High Yield Corporate Bond Index	2.40	2.57	3.05	8.15	5.54	9.46
ICE BofAML US 3-Month Treasury Bill Index	0.49	1.30	1.59	0.84	0.52	0.34
ICE BofAML 1-Year US Treasury Note Index	0.41	1.07	1.08	0.74	0.55	0.71
FTSE World Government Bond Index 1-5 Years (hedged to USD)	0.17	0.58	0.64	1.04	1.26	1.90
Bloomberg Barclays US Aggregate Bond Index	0.02	-1.60	-1.22	1.31	2.16	3.77
Bloomberg Barclays Municipal Bond Index	-0.15	-0.40	0.35	2.24	3.54	4.75
FTSE World Government Bond Index 1-5 Years	-0.63	-1.68	-1.39	0.84	-1.16	0.88
Bloomberg Barclays US TIPS Index	-0.82	-0.84	0.41	2.04	1.37	3.32
Bloomberg Barclays US Government Bond Index Long	-2.82	-5.71	-3.50	0.78	4.41	5.45

\*Annualized

One basis point equals 0.01%. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect the expenses associated with the management of an actual portfolio. Yield curve data from Federal Reserve. State and local bonds are from the S&P National AMT-Free Municipal Bond Index. AAA-AA Corporates represent the Bank of America Merrill Lynch US Corporates, AA-AAA rated. A-BBB Corporates represent the Bank of America Merrill Lynch US Corporates, BBB-A rated. Bloomberg Barclays data provided by Bloomberg. US long-term bonds, bills, inflation, and fixed income factor data © Stocks, Bonds, Bills, and Inflation (SBBBI) Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefeld). FTSE fixed income indices © 2018 FTSE Fixed Income LLC, all rights reserved. ICE BofAML index data © 2018 ICE Data Indices, LLC.

# Impact of Diversification

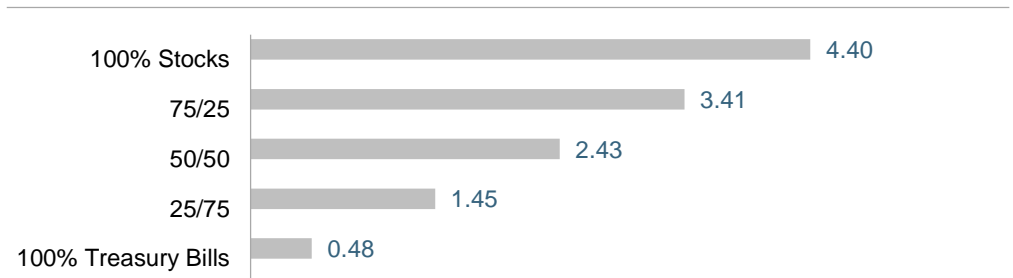
## Third Quarter 2018 Index Returns

These portfolios illustrate the performance of different global stock/bond mixes and highlight the benefits of diversification. Mixes with larger allocations to stocks are considered riskier but have higher expected returns over time.

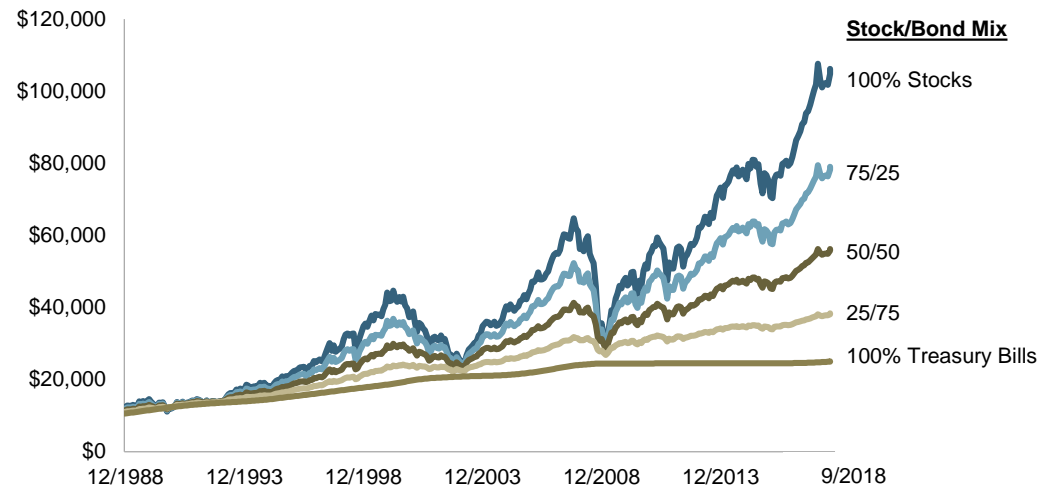
Period Returns (%) \* Annualized

Asset Class	YTD	1 Year	3 Years*	5 Years*	10 Years*	10-Year STDEV <sup>1</sup>
100% Stocks	4.26	10.35	14.02	9.25	8.77	15.83
75/25	3.56	8.14	10.64	7.08	6.85	11.87
50/50	2.82	5.93	7.31	4.89	4.78	7.91
25/75	2.05	3.71	4.01	2.68	2.58	3.95
100% Treasury Bills	1.24	1.50	0.75	0.45	0.27	0.14

Ranked Returns (%)



Growth of Wealth: The Relationship between Risk and Return



1. STDEV (standard deviation) is a measure of the variation or dispersion of a set of data points. Standard deviations are often used to quantify the historical return volatility of a security or portfolio. Diversification does not eliminate the risk of market loss. Past performance is not a guarantee of future results. Indices are not available for direct investment. Index performance does not reflect expenses associated with the management of an actual portfolio. Asset allocations and the hypothetical index portfolio returns are for illustrative purposes only and do not represent actual performance. Global Stocks represented by MSCI All Country World Index (gross div.) and Treasury Bills represented by US One-Month Treasury Bills. Globally diversified allocations rebalanced monthly, no withdrawals. Data © MSCI 2018, all rights reserved. Treasury bills © Stocks, Bonds, Bills, and Inflation Yearbook™, Ibbotson Associates, Chicago (annually updated work by Roger G. Ibbotson and Rex A. Sinquefeld).

# Major Asset Class Returns Through Time

Choosing the correct individual asset class to “win” each year is not our approach. We build a team for you

1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 (through Q3)	Annualized	Cumulative	St. Dev.
EM Equities 66.5%	Small Cap 11.8%	Fixed Income 8.4%	Fixed Income 10.3%	EM Equities 55.8%	EM Equities 25.6%	EM Equities 34.0%	EM Equities 32.1%	EM Equities 39.4%	Fixed Income 5.2%	EM Equities 78.5%	Small Cap 26.3%	Fixed Income 7.8%	EM Equities 18.2%	Small Cap 41.3%	Large Cap 13.7%	Large Cap 1.4%	Small Cap 26.6%	EM Equities 37.3%	Small Cap 14.5%	Small Cap 10.7%	Small Cap 642.9%	EM Equities 33.2%
DM Equities 27.0%	Fixed Income 11.6%	Small Cap 6.5%	Cash 1.6%	Small Cap 38.8%	Small Cap 22.7%	DM Equities 13.5%	DM Equities 26.3%	DM Equities 11.2%	Cash 1.4%	DM Equities 31.8%	EM Equities 18.9%	Large Cap 2.1%	DM Equities 17.3%	Large Cap 32.4%	US Flex 6.9%	US Flex 0.6%	Large Cap 12.0%	DM Equities 25.0%	US Large Cap 10.6%	EM Equities 9.1%	EM Equities 454.5%	DM Equities 20.9%
Large Cap 21.0%	Cash 5.8%	Cash 3.4%	EM Equities -6.2%	DM Equities 38.6%	DM Equities 20.3%	Small Cap 7.7%	Large Cap 15.8%	Global Flex 8.4%	US Flex - 21.4%	Large Cap 26.5%	Large Cap 15.1%	US Flex 1.6%	Small Cap 16.3%	DM Equities 22.8%	Fixed Income 6.0%	Fixed Income 0.6%	EM Equities 11.2%	Large Cap 21.8%	US Flex 3.3%	US Large Cap 6.5%	US Large Cap 245.0%	US Large Cap 17.3%
Global Flex 14.7%	US Flex -1.8%	EM Equities -2.6%	Global Flex -6.7%	Large Cap 28.7%	Global Flex 12.0%	Global Flex 7.4%	Global Flex 15.4%	US Flex 7.2%	Global Flex -22.7%	Small Cap 25.6%	US Flex 10.2%	Small Cap 1.0%	Large Cap 16.0%	US Flex 16.7%	Small Cap 5.8%	Global Flex 0.2%	US Flex 6.0%	Global Flex 15.8%	Cash 1.3%	US Flex 5.8%	US Flex 206.4%	Small Cap 16.9%
US Flex 13.5%	Global Flex -2.8%	US Flex -5.7%	US Flex - 7.9%	Global Flex 22.8%	Large Cap 10.9%	US Flex 5.6%	Small Cap 15.1%	Fixed Income 7.0%	Small Cap -31.1%	Global Flex 20.4%	Global Flex 8.7%	Cash 0.0%	Global Flex 11.8%	Global Flex 14.8%	Global Flex 3.2%	Cash 0.0%	Global Flex 3.9%	US Flex 15.2%	Global Flex 0.9%	Global Flex 5.5%	Global Flex 185.4%	Global Flex 11.0%
Small Cap 12.4%	Large Cap -9.1%	Global Flex -7.6%	Small Cap -14.6%	US Flex 20.8%	US Flex 10.1%	Large Cap 4.9%	US Flex 13.3%	Large Cap 5.5%	Large Cap -37.0%	US Flex 19.3%	DM Equities 7.8%	Global Flex -1.3%	US Flex 11.6%	Cash 0.1%	Cash 0.0%	DM Equities -0.8%	Fixed Income 2.7%	Small Cap 13.2%	DM Equities - 1.4%	US Fixed Income 4.5%	US Fixed Income 139.6%	US Flex 10.2%
Cash 4.6%	DM Equities -14.2%	Large Cap -11.9%	DM Equities -15.9%	Fixed Income 4.1%	Fixed Income 4.3%	Cash 3.1%	Cash 4.7%	Cash 4.4%	DM Equities -43.4%	Fixed Income 5.9%	Fixed Income 6.5%	DM Equities -12.1%	Fixed Income 4.2%	Fixed Income -2.0%	EM Equities -2.2%	Small Cap -2.0%	DM Equities 1.0%	Fixed Income 3.5%	US Fixed Income -1.6%	DM Equities 4.3%	DM Equities 128.5%	US Fixed Income 3.7%
Fixed Income -0.8%	EM Equities -30.8%	DM Equities - 21.4%	Large Cap - 22.1%	Cash 1.0%	Cash 1.4%	Fixed Income 2.4%	Fixed Income 4.3%	Small Cap -0.3%	EM Equities -53.3%	Cash 0.1%	Cash 0.1%	EM Equities -18.4%	Cash 0.1%	EM Equities -2.6%	DM Equities -4.9%	EM Equities -14.9%	Cash 0.3%	Cash 0.9%	EM Equities -7.7%	Cash 1.7%	Cash 40.1%	Cash 1.9%

Data taken from Kwanti Performance Analytics. This application is for informational purposes only, and does not constitute advice for investment or trading.

Past performance is no guarantee of future results. Results are based on simulated or hypothetical performance results that have certain inherent limitations. Unlike the results shown in an actual performance record, these results do not represent actual trading. Also, because these trades have not actually been executed, these results may have under- or over-compensated for the impact, if any, of certain market factors, such as lack of liquidity. Simulated or hypothetical trading programs in general are also subject to the fact that they are designed with the benefit of hindsight. No representation is being made that any account will or is likely to achieve profits or losses similar to these being shown.

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Asset Class Indices used: US Large Cap: S&P 500, US Small Cap: S&P 600 Small Cap, Cash: 90-Day Treasury Bill TR, US Fixed Income: Bloomberg Barclays US Aggregate, DM Equities: MSCI EAFE, EM Equities: MSCI Emerging Markets, US Flex: 40% S&P 500, 20% MSCI Eafe, 40% Bloomberg Barclays US Aggregate Bond Index, Global Flex: 40% MSCI Eafe, 20% S&P 500, 40% Bloomberg Barclays US Aggregate Bond Index

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October, 2018

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